

Amendments to Claims:

This listing of claims will replace all prior versions and listings of the claims in the application:

Listing of Claims:

1-35. (canceled).

36. (currently amended) A method as recited in claim [[35]]39 which further comprises the step of positioning a guidewire in the body passageway, and wherein said advancing step is accomplished by threading said catheter over said guidewire.

37. (currently amended) A method as recited in claim [[35]]39 which further comprises the step of allowing said expansion member to be in said second expanded configuration for a predetermined period of time after the dilatation step to further expose said obstruction to the medicament.

38. (currently amended) A method as recited in claim [[35]]39 which further comprises the step of varying the electric current with time to provide a waveform that controls the rate of iontophoretic transport of said medicament.

39. (previously presented) A method for dilating and delivering a medicament to an obstruction in a body passageway which comprises the steps of:

advancing a mechanical dilatation catheter to a predetermined site within a body passageway, said catheter having a cylindrically shaped expansion member coated with a medicament and an iontophoretic transport means, said cylindrically shaped expansion member being moveable between a first contracted configuration wherein said member is defined by a first dimension extending in a radial direction, and a second expanded configuration wherein said expansion member is defined by a second dimension extending in said radial direction;

applying a force on said cylindrically shaped expansion member in an axial direction to move said expansion member between said first contracted configuration to said second expanded configuration wherein said obstruction is dilated;

operating said iontophoretic means to deliver said medicament into said obstruction or body passageway;

further comprising, prior to advancing the catheter, the step of applying electrical energy to said expansion member to cause said medicament or therapeutic agent to electrically bond to said expansion member.

40-44. (canceled).

45. (currently amended) A method as recited in claim 39~~An apparatus as recited in claim 31~~ wherein said expansion member comprises a first plurality of flexible elongate elements helically wound in a first direction of rotation and a second plurality of flexible elongate elements helically wound in a second direction of rotation to form a braid.

46-47. (canceled).

48. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~ wherein the expansion member is coated with a medicament comprising an anticoagulant.

49. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament selected from the group consisting of D-Phe-Pro-Arg chloromethyl ketone, an RGD peptide-containing compound, heparin, an antithrombin compound, a platelet receptor antagonist, an anti-thrombin antibody, an anti-platelet receptor antibody, hirudin, hirulog, phe-pro-arg-chloromethyketone (Ppack), Factor VIIa, Factor Xa, aspirin, clopidogrel, ticlopidine, a prostaglandin inhibitor, a platelet inhibitor a and a tick anti-platelet peptide, and combinations thereof.

50. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising a promoter of vascular cell growth.
51. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament selected from the group consisting of a growth factor stimulator, a growth factor receptor agonist, a transcriptional activator, and a translational promoter, and combinations thereof.
52. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising an inhibitor of vascular cell growth.
53. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament selected from the group consisting of a growth factor inhibitor, a growth factor receptor antagonist, a transcriptional repressor, a translational repressor, an antisense DNA, an antisense RNA, a replication inhibitor, an inhibitory antibody, an antibody directed against growth factors, a bifunctional molecule consisting of a growth factor and a cytotoxin, and a bifunctional molecule consisting of an antibody and a cytotoxin, double stranded DNA, single stranded DNA, single stranded RNA and a double stranded RNA and combination thereof.
54. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising a cholesterol-lowering agent.
55. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising a vasodilating agent.
56. (currently amended) A method as recited in claim 39~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising an agent that interferes with endogenous vasoactive mechanisms.

57. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament selected from the group consisting of estrogen, testosterone, steroid hormones, cortisol, dexamethasone, corticosteroids, thyroid hormones, thyroid hormones analogs, thyroid hormones antagonist, adrenocorticotrophic hormone, thyroid stimulating hormone, thyroid releasing factor, thyroid releasing factor analogs, thyroid releasing factor antagonists and combinations thereof.
58. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising a smooth muscle inhibitor.
59. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising an agent that modulates intracellular calcium binding proteins.
60. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprising a receptor blocker for contractile agonists.
61. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament selected from the group consisting of an inhibitor of the sodium/hydrogen antiporter, a protease inhibitor, a nitrovasodilator, phosphodiesterase inhibitor, a phenothiazine, a growth factor receptor agonist, an anti-mitotic agent, an immunosuppressive agent, and a protein kinase inhibitor, and combinations thereof.
62. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament comprises a compound that inhibits cellular proliferation.

63. (currently amended) A method as recited in claim 39 ~~The apparatus of claim 31~~, wherein the expansion member is coated with a medicament selected from the group consisting of Paclitaxel, Rapamycin, Sirolimus, Actinomycin D, Methotrexate, Doxorubicin, cyclophosphamide, and 5-fluorouracil, and combinations thereof.

64. (currently amended) A method as recited in claim ~~[[35]]~~39 which further comprises the step of allowing said expansion member to be in said second expanded configuration for an indeterminate time period as necessary to delivery the medicament to the passageway.

65. (currently amended) A method as recited in claim ~~[[35]]~~39 which further comprises the step of varying the electric current with time to provide a square waveform that controls the rate of iontophoretic of said medicament.

66. (currently amended) A method as recited in claim 39 ~~The method of claim 35~~ wherein the passageway is a blood vessel.

67. (currently amended) A method as recited in claim 39 ~~The method of claim 35~~ further comprising the step operating the expandable member to dilate the passageway.

68. (currently amended) A method as recited in claim 39 ~~The method of claim 35~~, wherein the expansion member is coated with a combination of one or more medicaments and one or more polymers used to bond said medicaments to said expansion member.

69-84. (canceled).

85. (currently amended) A method as recited in claim 39 ~~The method of claim 35~~ further comprising the step of providing the cylindrically shaped expansion member in the form of an expandable mesh.

86. (currently amended) A method as recited in claim 39 ~~The method of claim 35~~ further comprising the step of providing the cylindrically shaped expansion member having an inner flow passage permitting fluid flow through the expansion member.

87. (currently amended) A method as recited in claim 39 ~~The method of claim 35~~ further comprising operating said iontophoretic means to supply a flow of electrical current to the cylindrically shaped expansion member.

88. (canceled).